

COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET RICHMOND, VIRGINIA 23219 (804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT:

Intox EC/IR II

SERIAL NUMBER:

010614

CERTIFICATION DATE:

January 29, 2014

DATE RECERTIFICATION DUE:

July 28, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

 0.020 ± 0.004 g/210 L

 0.150 ± 0.007 g/210 L

 0.080 ± 0.004 g/210 L

 0.250 ± 0.007 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

Sarah E. Dersch Forensic Scientist

CITY OF RICHMOND COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this

fore me this <u>U</u> day of by Sarah E. Dersch

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014

Ciera N. Boxley
Notary Public - ID 7364173
Commonwealth of VA
My Com. Exps. D8/31/2014

Mosk

8d

Department of Forensic Science Breath Alcohol Section Instrument Maintenance History 1/1/1990 To 2/3/2014

Instrument Serial Number:		010614	As of 03-Feb-14
Maintenance	Certification	Technician	
Date	Date	Initials	Remarks
29-Jan-14	29-Jan-14	SED (24178)	CERTIFIED. REPLACED DRY GAS STANDARD.
15-Aug-13	15-Aug-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
27-Feb-13	27-Feb-13	TLN (25387)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
06-Sep-12	06-Sep-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
20-Aug-12	21-Mar-12	HMS (18910)	REPLACED PRINTER.
21-Mar-12	21-Mar-12	HMS (18910)	CERTIFIED
23-Feb-12	23-Feb-12	DBH (21250)	CERTIFIED
28-Dec-11	28-Dec-11	MSK (21355)	CALIBRATED AND CERTIFIED.
10-Nov-11	10-Nov-11	DBH (21250)	REALIGNED PURGE FAN. CLEANED INTERNAL INSTRUMENT HOUSING. CERTIFIED
15-Jun-11	15-Jun-11	DBH (21250)	CALIBRATED AND CERTIFIED.
15-Jun-11	15-Jun-11	DBH (21250)	CERTIFIED
03-Jan-11	03-Jan-11	DBH (21250)	CERTIFIED
08-Sep-10	03-Aug-10	DBH (21250)	REPLACED DRY GAS STANDARD
03-Aug-10	03-Aug-10	DBH (21250)	CALIBRATED AND CERTIFIED.
06-Jul-10	06-Jul-10	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
07-Jun-10	12-Jan-10	DBH (21250)	REPLACED DRY GAS STANDARD
12-Jan-10	12-Jan-10	DBH (21250)	CERTIFIED
03-Aug-09	03-Aug-09	DBH (21250)	CALIBRATED AND CERTIFIED.
09-Mar-09	09-Mar-09	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
15-Dec-08	15-Dec-08	DBH (21250)	CERTIFIED.
20-Nov-08	20-Nov-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.



INTOX EC/IR II

Quality Assurance Worksheet

Instrument Serial Number 010614 Worksheet Start Date 1/29/2014 Location Loudoun Co ADC Address 42035 Loudoun Center Place, Leesburg VA 20175 DFS Technician Sarah Dersch 24178 License No. □ Laboratory ☑ On-Site Site Specification: No detrimental environmental conditions exist. V Instrument Barometer (mm HG) 757 Reference Barometer (mm HG) 759 Reference Barometer(RB)Serial# 009111 RB Calibration Due 5/23/2014 Measurement Assurance Check Standard (sea level) **PA Target** minimum maximum Sample 1 0.298 Sample 2 0.300 0.298 0.289 0.306 0.298 Precision sample min sample max Sample 3 0.298 0 0.298 0.298 Standard (sea level) PA Target minimum maximum Sample 1 0.099 Sample 2 0.100 0.100 0.097 0.103 0.099 Precision sample min sample max Sample 3 0.099

0.099

0.099

Dry gas standard Lot No. (with tank no.) AG332301-15

 ✓ Replaced dry gas standard (+O-ring)
 Supplies

 Mouthpieces
 Certificates of Analysis

 Operator Worksheet
 Other:

Operator Worksheet 100
Other:

Notes:

Intox EC/IR II QA Worksheet Issued by Calibration and Training Program Manager Issue Date: 9-December-2013

0

150

Instrument	Serial	Number
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010614

Certification Date

1/29/2014

Calibrated

Certified

Measurement Assurance Check

✓ Instrument Test

Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level) 0.250 Precision 0	PA Target 0.249	minimum 0.241 sample min 0.247	maximum 0.256 sample max 0.247	Sample 1 Sample 2 Sample 3	0.247 0.247 0.247
Standard (sea level) 0.150 Precision 0	PA Target 0.149	minimum 0.144 sample min 0.148	maximum 0.153 sample max 0.148	Sample 1 Sample 2 Sample 3	0.148 0.148 0.148
Standard (sea level) 0.080 Precision 0	PA Target 0.080	minimum 0.077 sample min 0.079	maximum 0.083 sample max 0.079	Sample 1 Sample 2 Sample 3	0.079 0.079 0.079
Standard (sea level) 0.020 Precision 0	PA Target 0.020	minimum 0.017 sample min 0.019	maximum 0.023 sample max 0.019	Sample 1 Sample 2 Sample 3	0.019 0.019 0.019

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

Date

2/3/14

Issuing Analyst

Date

2/3/14

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010614 Test Number: 1796
Test Date: 01/29/2014 Test Time: 15:08 EST

Technician Initials: SED Dry Gas Target: 0.249

Lot Number: 0651225015-02 Exp Date: 04/01/2014 Tank Pressure: 360 psi Barometric Pressure: 757 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:09
\mathtt{BLK}	0.000	15:10
CHK	0.247	15:10
\mathtt{BLK}	0.000	15:12
CHK	0.247	15:13
BLK	0.000	15:15
CHK	0.247	15:16
BLK	0.000	15:17

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

Ed

Intox EC/IR-II: Certification

Department of Forensic Science
Serial Number: 010614 Test Number: 1797
Test Date: 01/29/2014 Test Time: 15:20 EST

Technician Initials: SED Dry Gas Target: 0.149

Lot Number: 0651215014-04 Exp Date: 04/01/2014 Tank Pressure: 806 psi Barometric Pressure: 756 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:20
BLK	0.000	15:21
CHK	0.148	15:21
BLK	0.000	15:23
CHK	0.148	15:24
BLK	0.000	15:26
CHK	0.148	15:26
BLK	0.000	15:28

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

Sid

Intox EC/IR-II: Certification

Department of Forensic Science Serial Number: 010614 Test Number: 1798 Test Date: 01/29/2014 Test Time: 15:29 EST

Technician Initials: SED Dry Gas Target: 0.080

Lot Number: 0651208012-01 Exp Date: 04/01/2014
Tank Pressure: 948 psi Barometric Pressure: 756 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:30
BLK	0.000	15:31
CHK	0.079	15:31
BLK	0.000	15:33
CHK	0.079	15:34
BLK	0.000	15:35
CHK	0.079	15:36
BLK	0.000	15:37

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

Sid

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010614 Test Number: 1799
Test Date: 01/29/2014 Test Time: 15:39 EST

Technician Initials: SED Dry Gas Target: 0.020

Lot Number: 0651202011-07 Exp Date: 04/01/2014
Tank Pressure: 71 psi Barometric Pressure: 756 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:39
BLK	0.000	15:40
CHK	0.019	15:41
BLK	0.000	15:42
CHK	0.019	15:43
BLK	0.000	15:44
CHK	0.019	15:45
BLK	0.000	15:46

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010614 Test Number: 1800
Test Date: 01/29/2014 Test Time: 15:49 EST

Dry Gas Target: 0.298

Lot Number: AG321804-04 Exp Date: 08/06/2015

Tank Pressure: 399 psi Barometric Pressure: 756 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	15:50
CHK	0.298	15:50
BLK	0.000	15:52
CHK	0.298	15:53
BLK	0.000	15:55
CHK	0.298	15:56

Test Status: Success

Calibration CRC: F80233C6

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010614 Test Number: 1801

Dry Gas Target: 0.100 Lot Number: AG332301-15 Exp Date: 11/19/2015

Tank Pressure: 1115 psi Barometric Pressure: 756 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	16:01
CHK	0.099	16:02
BLK	0.000	16:03
CHK	0.099	16:04
BLK	0.000	16:06
CHK	0.099	16:06

Test Status: Success

Calibration CRC: F80233C6





COMMONWEALTH OF VIRGINIA DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED	NAME OF COURT
INSTRUMENT, TEST,	DFS
BREATH ANALYSIS	
SAMPLE EXAMINED AND TEST CONDUCTED BY	AGENCY
	,
DERSCH, SARAH, E	DFS Central Lab
DFS LICENSE NUMBER LICEN	SE EXPIRES DATE TEST CONDUCTED
24178	/01/2014 01/29/2014
TEST EQUIPMENT NUMBER	以证据是是是 对对对对对对对对对证明 的
010614	级国级马克斯特 "是我们是是我们是
010614	は、これには、これのは、これにより、これは、これは、これには、これには、これには、これには、これには、これには、こ
RESULTS: TIME SAMPLE TAKEN16:15	EST
SAMPLES ALCOLIOL CONTENTE O OO	OD ALIC DED 21A LITERO OF DREATH
SAMPLE'S ALCOHOL CONTENT0.00	GRAMS PER 210 LITERS OF BREATH
ATTEST:	
I CERTIFY THAT THE ABOVE IS AN ACCURATE RECOR	D OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF
EQUIPMENT AND IN ACCORDANCE WITH THE METH CONDUCTED IN ACCORDANCE WITH THE D	ODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS EPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF
THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT	TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND
THIS DAY OF	, 20
BREATH TEST OPERATOR	
☐ I HAVE RECEIVED A COPY OF THIS CERT	TFICATE OF ANALYSISSUBJECT'S SIGNATURE
	SUBJECT S SIGNATURE
\square SUBJECT REFUSED TO SIGN FOR COPY C	F CERTIFICATE OF ANALYSISOPERATOR'S SIGNATURE